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#### ABSTRACT

This report identifies some of the relative advantages and disadvantages enjoyed by differing language groups in the Toronto school system. Eight groups of students were selected and studied in an attempt to determine whether cultural differences produce distinct patterns of performance on a variety of measures. The groups selected represent the Chinese, French, German, Greek, Italian, Polish, Portuguese, and Ukrainian cultures. The patterns of performance in grades 5, 7, and 9 indicate that areas of strength and weakness vary with grade as well as with cultural background. The findings suggest the extent and nature of the difficulties for students who must learn English as a second language. Several charts of statistical data are included. (RL)

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THE BOARD OF EDUCATION



FOR THE CITY OF TORGN'S

# LANGUAGE BACKGROUNDS AND ACHIEVEMENT IN TORONTO SCHOOLS

C. A. Ramsey E. N. Wright

February, 1970

ERIC Full Text Provided by ERIC

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#### INTRODUCTION

A diversity of language groups are represented in the Inputs schools. It was almost inevitable that when there was a large scale study of students who learned English as a second language, presticus would be raised about the various language groups. At the meeting of the Epecial Committee re Educating New Canadians, June 20, 1979, trustees were assured that such questions would be examined in a forth-coming report.

Comparing language groups on such factors as ability or achievement requires certain qualifications. It would be meaningless to compare all Italian with all Polish students without controlling such basics as age and grade. However, such basic factors as grade and age are not sufficient to describe the variations in performance of students in Toronto whose mother torque is not English.

It was noted in a previous report 1 that 38.5 per cent of students in grades five, seven and nine did not learn English as a first language: some were born in Canada, others arrived while they were infants, others arrived after having started school in another land. Because of such background factors 2 it is necessary to subdivide the students within each specific language group. For example, in



<sup>1</sup> Ramsey, C. A., & Wright, E. N. <u>Students of non-Canadian origin: A descriptive report of students in Toronto schools</u>. Toronto: The Board of Education for the City of Toronto, Research Department, 1969 (#60).

<sup>2</sup> Ramsey, C. A., & Wright, E. N. Students of non-Canadian origin: The relation of language and rural-urban background to academic achievement and ability. Toronto: The Board of Education for the City of Toronto, Research Department, 1969 (#76).

looking at German speaking students, it is necessary to distinguish between students who were born in Canada and learned German as a first language and students born outside Canada and learned German as a first language.

Furthermore, since students "not some in Janaha" errite hat
various ages, this factor should be controlled also. Another resert
investigating the relation of age on arrival to achievement found it as will
to separate the non-Canadian born students into early arriving and late arrivers were defined as those who arrive lunder the age of
seven years, and late arrivers were those seven years and older on arrival.

These restrictions, which allow more meaningful statements to be made, result in the following subdivisions for each language group.

- "B" -- Students born in Canada who learned
  English as a second language. These
  students can be thought of as "second
  generation" immigrants.
- "De" -- Students born outside Canada who learned English as a second language, and who arrived in Canada at 6 years of age or younger.
- "D<sub>1</sub>" -- Students born outside Canada who learned English as a second language, and who arrived in Canada at 7 years of age or older.

Ramsey, C. A., & Wright, E. N. <u>Students of non-Canadian origin: Relation of age on arrival to academic achievement and ability</u>. Toronto: The Board of Education for the City of Toronto, Research Department, 1970 (in preparation).

<sup>4</sup> The designation of "B" and "D" is consistent with designations used in parallel reports.

Because immigrants leave their land of birth for him recorded representative of their country, and indeed this report is based on language spoken rather than country of birth. A second important qualification must be noted: reasons for migration change, immigration policies change and yesterday's immigrants are not necessarily going to be like tomorrow's immigrants.



#### PROCEDURES

This report will attempt to identify some of the relative advantages and disadvantages enjoyed by differing language groups (and by the types of students within them). If clearly defined patterns exist within any language group, then some conclusions may be array to assist in planning the students! curricula.

described in the above categorizations. Within each cell (i.e. group) by grade) as many as 26 languages may be represented. The Student background Questionnaire from which the language information was obtained, contained a check list of 26 languages but some languages were checked by few, or even none of the students. Frequencies for each language group are reported in the Appendix. Where there seemed to be "adequate" representation at one or more grade levels, a language group was selected for inclusion in the analyses. Table 2 indicates which language groups were selected. Although only eight language groups were selected, an examination of Tables 3 to 5 in the Appendix shows that at some grade levels a language group may be represented by only a few students. This limitation is most apparent for the Greeks, born in Canada, where there are 30 in grade five but only 5 in grade seven and 6 in grade nine.

<sup>5</sup> Ramsey, C. A., & Wright, E. N. <u>Students of non-Canadian origin: A descriptive report of students in Toronto schools</u>. Toronto: The Board of Fducation for the City of Toronto, Research Department, 1969 (#60).

TABLE 1

UNIDER OF STUDENTS IN THE BILINGUAL GROUPS: BY BELLING

	Grade				
Group	5	7	,	T.t.i.	
B- second generation	401	263	220	7/4.	
De- early arrival	172	160	225	::7	
D <sub>l</sub> - late arrival	215	136	251	c).	
Totals	788	559	75€	.1 ,	

TABLE 2

LANGUAGE GROUPS SELECTED ON THE CRITERION OF ADEQUATE REPRESENTATION

	Bilingual Student Cateogory		
	B (Second Generation)	D <sub>e</sub> (Early Arrival)	D <sub>1</sub> (Late Arrival)
	Chinese		Chinese
	French		
	German	German	
LANGUAGES	Greek	Greek	Greek
LANGUAGES	Italian	Italian	Italian
	Polish		
		Portuguese	Fortuguese
	Ukrainian		

major language groups in each category. The bilingual, courses we tion category (B) contains seven different language groups la called a are contained in each of groups D<sub>e</sub> and D<sub>1</sub>. This variation reflect that a relatively steady and heavy flow of immigrants of axing Groups is lateral and (b) to shifting pattern of immigration for some of the other language groups. These figures do not represent total immigration to Toronto as they do not, for one thing, include separate school data. It addition, students born in Canada, learning English as a second language, might include a few third generation immigrants.

The basic analysis of the data consisted of the calculation of mean scores for students in each selected language group, by grade.

Student scores were available on ten measures which have been described elsewhere. They were:

Picture Vocabulary (P.V.)
Computational Skill (C.S.)
Progressive Matrices (P.M.)
Teacher Ratings (T.R.)
and a six part test of basic
English Skills (1 to VI).

To examine meaningfully the resulting 450 means that were calculated, all means were converted to a common base (unit normal deviates) and expressed graphically. To place these analyses in context, performance is reported with reference to the average performance of all the students at each grade level.

<sup>6</sup> Ramsey, C. A., & Wright, E. N. <u>Students of non-Canadian origin: A descriptive report of students in Toronto schools</u>. Toronto: The Board of Education for the City of Toronto, Research Department, 1969 (#60).

#### RESULT.

The first eight figures show the overage scores of the selection language groups by grade and student category on four of the test modernes, i.e. F.V., C.S., P.M. and T.R. (the second group of eight figures present data on the subtests of English skills).

MOTE TO READER: In these figures the points representing average performance on each test have been connected like a graph, for each group, e.g.,

D<sub>1</sub> •---•

This procedure implies a scale on the horizontal axis, i.e. a continuum on some variable. Obviously, the four different tests (P.V., C.S., P.M., T.R.) shown in Figures 1 to 3 are discrete variables and could be shown in any order.

The points for each test were joined to facilitate making visual comparisons of the similarities or variations among groups and among grades. Thus, a set of four points in any grade joined by a line (solid or dotted) represents a pattern of performance for a specific group of students.

No statistical tests have been applied to the data. Because of the small numbers in some groups very large differences would be required to achieve statistical significance; whenever a point is within \$\frac{1}{2}\$.4 from the grade mean it is unlikely that one is seeing more than chance variation; in some instances a difference of at least .8 between two points is required to achieve significance. On the other hand, when

elemby define a protection are product only a second and a second fally because there are now made moved conflict to the model of the second and a s

fully. The following observations are made time statements as a similar examination of the figure by the conformation of the figure by the conformation was a supercrit to the reader. He may want also the residue the authors' observations.

# "Cecond Generation" Students Group &

Three of the language groups or not, first the series for a represented only by "second generation" students, Group is not this reasonation is worthwhile to look at ther in relation to Group a for the contributed age groups, Figures 1 to 2. Figure 7, Porturness, Josephan to the set of the set students, on most measures, for multiple above the grade average. In grades five and seven them is little variability among the scores on the different tests, although exceptions to this generality tion for grades five and seven are observable for the Chinese and for the five Greeks in grade seven. In grade nine, however, a distinct change is noticeable, with the scores on the Picture Vocabulary Test (1.7.) being markedly superior. The lack of variability in grades five and seven when reflect acculturation, i.e. they are similar to all Canadian born students. No explanation is suggested for the consistent outstanding grade nine performance on the Picture Vocabulary Test.

# Chinese (Figure 1)

The students who learned Chinese as a mother tongue show a distinctive pattern not found among the other students who spoke arguments. The focus, it is reported, is on patterns of scores. If the students, born in Canada (i.e. Group B), and the recent immigrate the cores.

particular some too few to be included, i.e. Imaging a continue of pattern then one suspects that some mile of duestry to appear to the formula. The Drinese students or most encocabular to the formular duality and the Progressive Matrices; their matrix of teachers are lower and their or most the dicture Matrix or matrix or my low. Since the varie for the summation was proved the leading to the students and discrimination. This difficulty approachly is students had with sound discrimination. This difficulty apparently is overcome by grade nine for those students form in Jenach.

### German (Figure 3)

There were not enough recent immigrants to provide data for all three categories. It is apparent that both those form in Canada and those who immigrated at an early age show similar patterns of preformance in grades sever and nine. In grave five the cluderts form outside Canada tend to have lower licture Vocabulary Cores. The pattern generally is one that shows above average stores with no specific area of strength or weakness except for the outstanding grade nine performance on the Picture Vocabulary T st.

#### Greek , Figure 4)

All three categories of Greek students are represented, although this was done at the expense of including some groups where there were few students. This may account for the fact that the only clear partern is seen in grade five. Here Computational Skills are consistently the strongest area and Picture Vocabulary the weakest area.

#### Italian (Figure 5)

The Italian students are the most adequately represented in terms of numbers. All three groups show a similar pattern in grade six-

with those wire in Danada showing the least variability. In the compact of the property of the groups show a similar pattern but the property of the pattern is strong time. The property of the pattern is strong that the property of the pattern of the constraint of the pattern of the constraint of the pattern of the patt

#### Portuguese (Figure 7)

There were not enough "second generation" Portugues state to include in this figure. The patterns in grades five trimine and indeed the mixed pattern in grade seven are very similar to the Italian patterns. The gains in Picture Vocabulary are great as are the grains in Teacher's Ratings. Computational Skills does not occury as predominant a position for the grade five Portuguese as it does for the grade fire Italians.

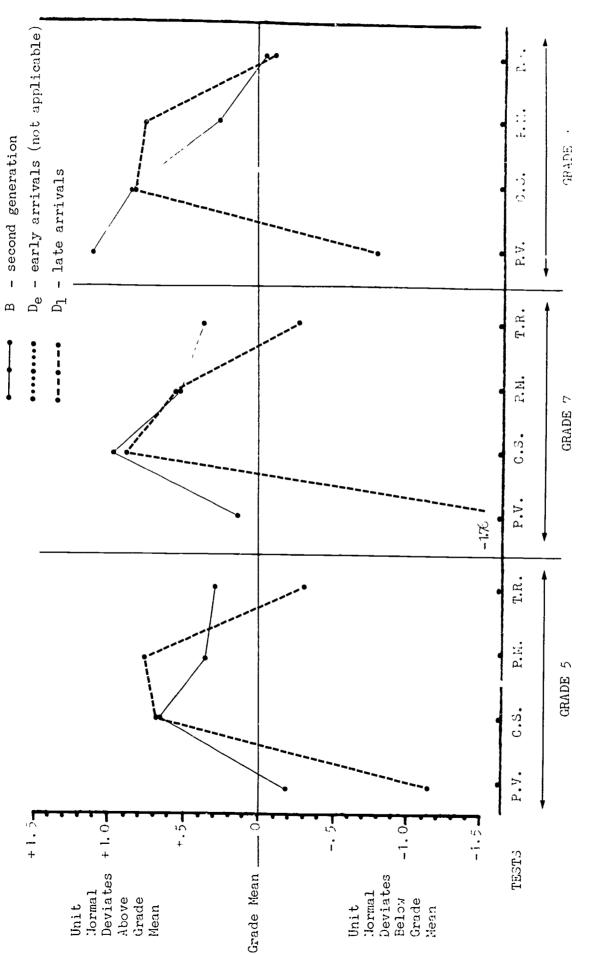


Fig. 1. Test performance of students for whom CHLIEGE and their motiver tengas. Fig. Transfer to the four tests, P.V. (Picture Vocabulary), C.S. (Computational Ukills), F.M. (Fransellary), C.S. (Computational Ukills), F.M. (Fransellary) is arbitrary and the raints have term join a computation of jatterns of parformance.

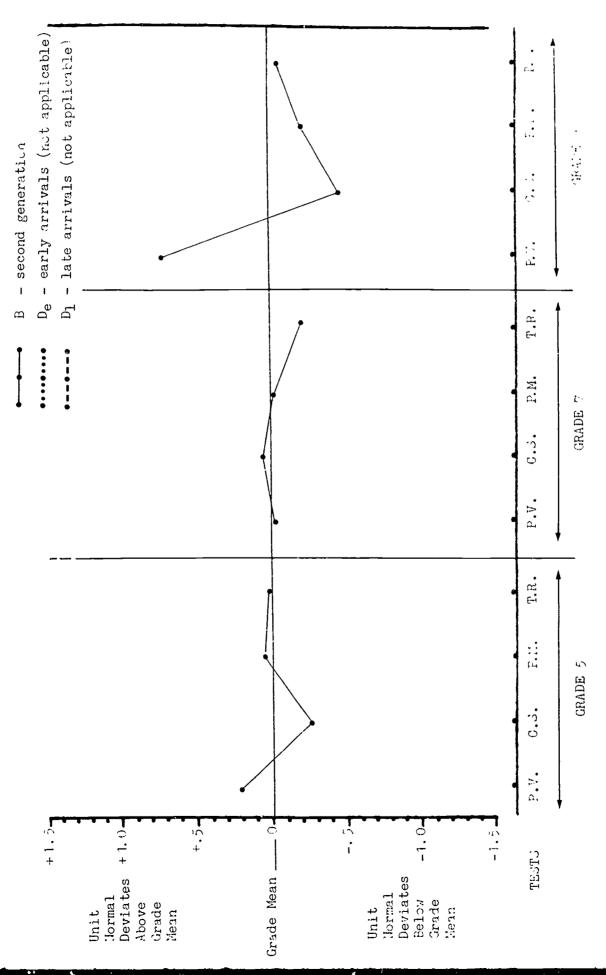
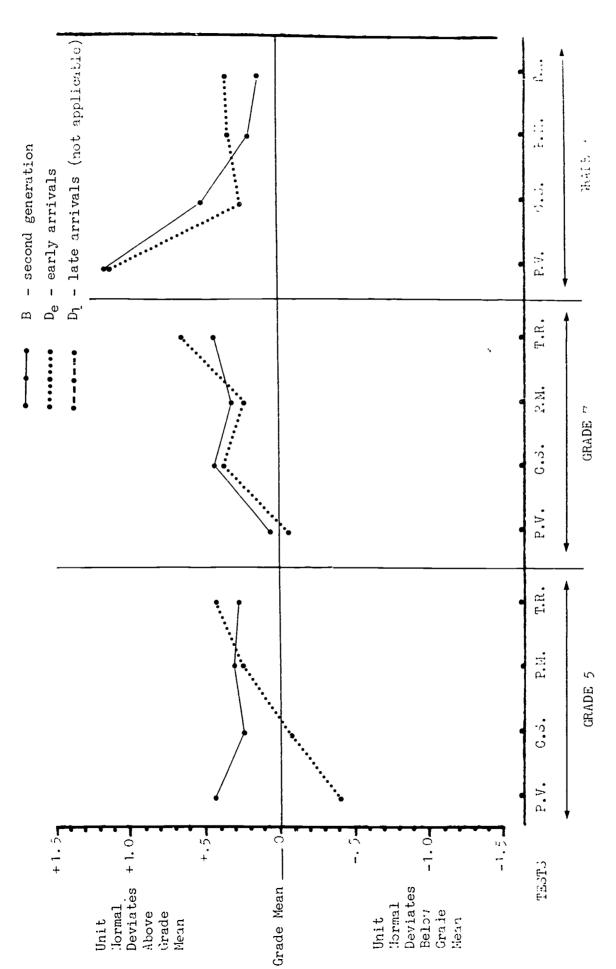


Fig. 1. Test performance of ctulents for whom FREMCH and their rother thanger. For arrangement four four tests, P.V. (Preture Vectualization, Computational Mills), Fill (Pregnant Continuous), C.C. (Cereber's Ratings of Students) is artiformy and the joints have seen [Mills to Political Continuous) of ratherns of nariormance.

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ing. 3. Test performance of students for whom <u>JBidish</u> was their noticer traje. For their in four tests, F.V. (Picture Vocabulary), 1.3. (Computational JR111s), P.I. (Frigrasia, APP 1.5), 1.1. (Frigrasia, APP

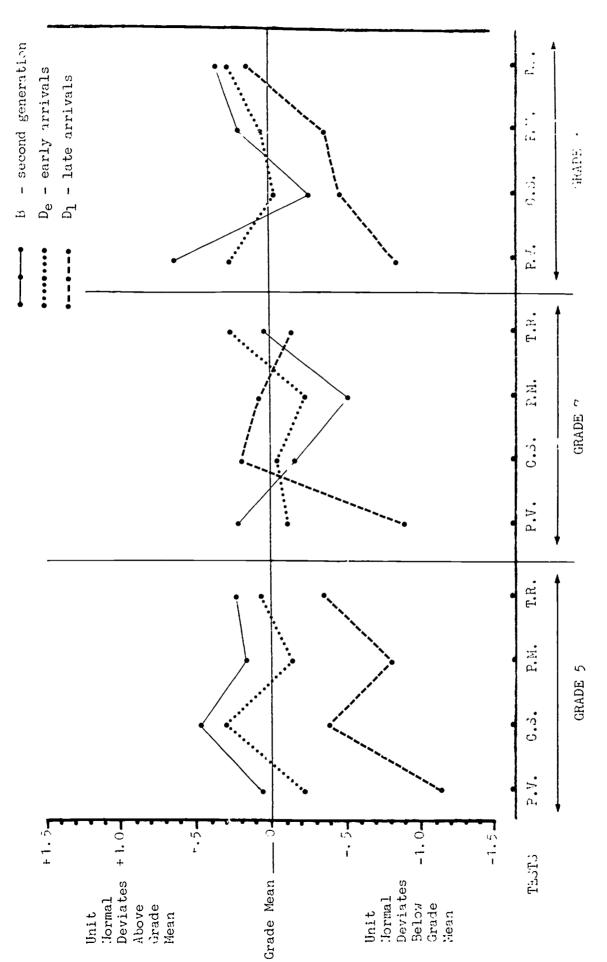
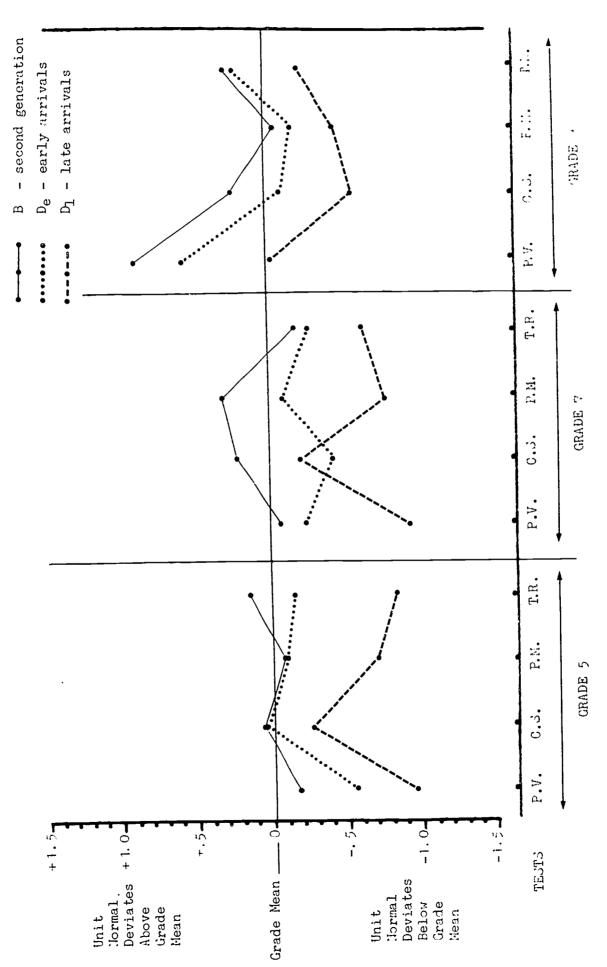
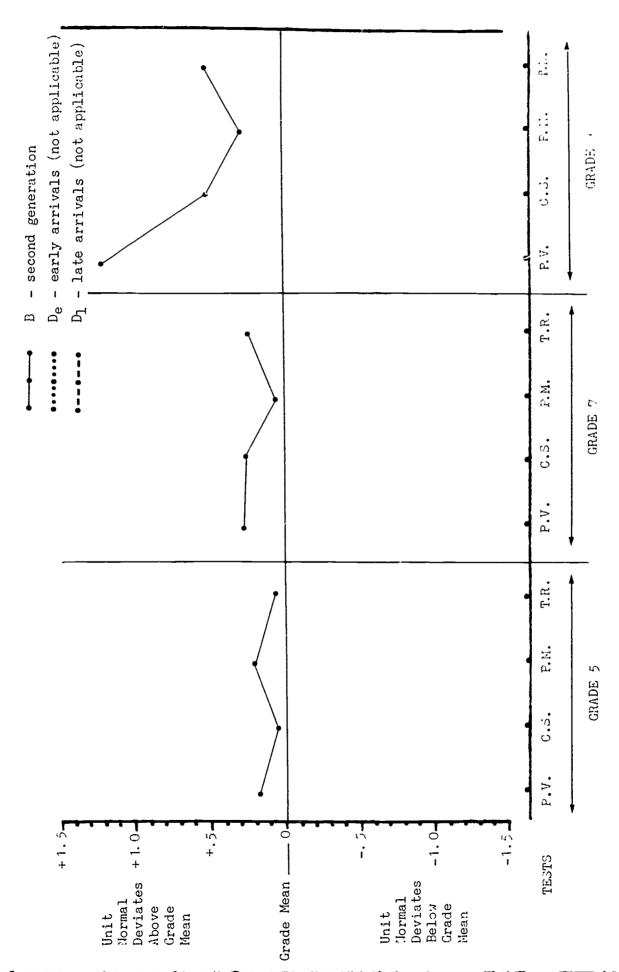


Fig. 4. Test performance of students for whom <u>OMEEK</u> was tacher four to be an interest of the four tests, P.V. (Ficture Vocaculary), G.J. (Computational Mills), Fil. (Property P.V. (Ficture Vocaculary), G.J. (Computational Mills), Fil. (Property Property Property



• Fig. 5. That performance of students for whom <u>[Tallah]</u> was their mother; came. The current of the four tests, F.V. (Picture Vocabulary), C.3. (Computational Wills), .... Computational Mills), .... Computational Mills), .... Computational Mills of Students) is an iterative and the collection of petterns of terformation.



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Fig. 6. Test performance of students for whom FOLLCH and their mother tongue. The arrangement four tests, P.V. (Picture Vocabulary), C.S. (Computational Skills), P.Y. (Progressiv Library, Annal (Teacher's Ratings of Students) is arbitrary and the joints have been joiner by Profillate 11 attiment. of putterns of performance.

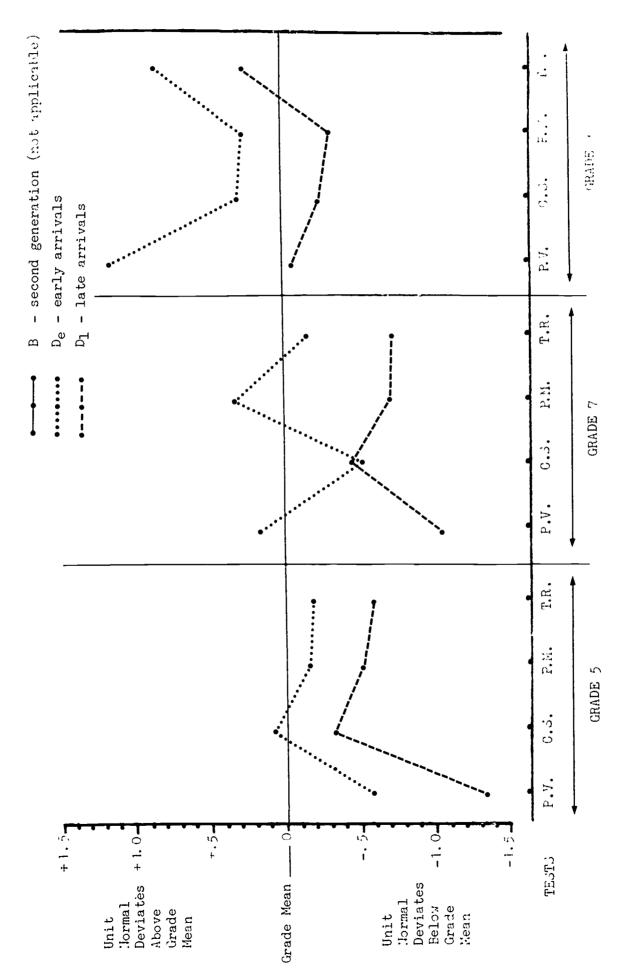


fig. 7. Test performance of students for whom FOINGUESE was their asther tests. The arrest of the four tests, P.V. (Ficture Vestalary), U.S. (Computational Mills), i.M. (From subjective tests) is arbitrary and the rational vertical testings of Students) is arbitrary and the rational vertical testings of year region.

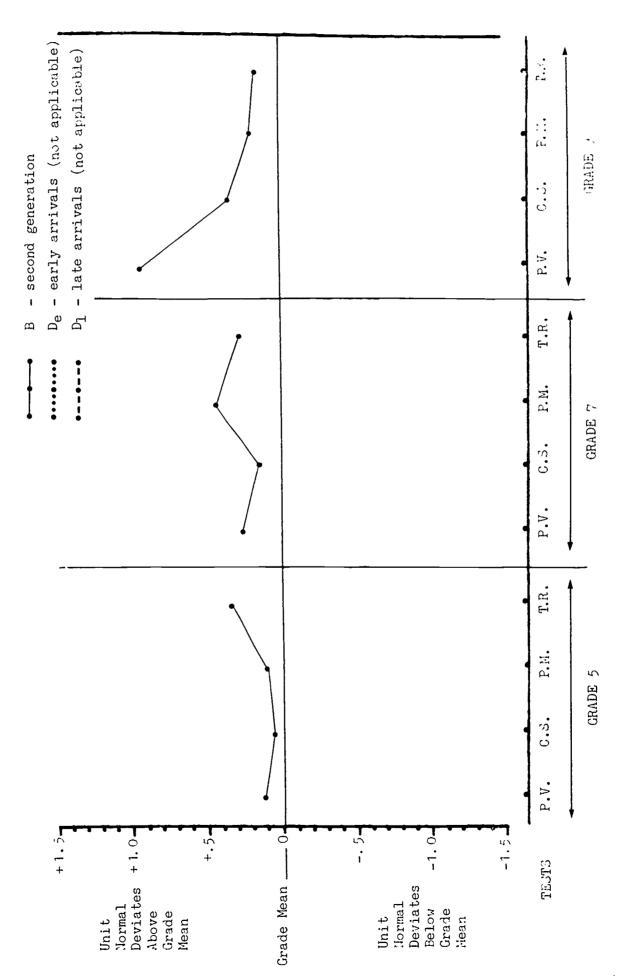


fig. 2. Test performance of students for whom <u>UKRALHIAL</u> was their rether toggue. The armount of the four tests, P.V. (Ficture Vocabulary), G.S. (Computational Mills), i.M. (Fr greater Marings of tulents) is arbitrary and the relationstant of the feathers of patherns of performance.

rand the student categories within them on the remaining cir not constitute. The subtests of English Language Skills). The differences which the language and student categories (and grades) on these six subtests must be viewed with caution as the reliability and validity of the last have not been established. For this reason the eight language groups are discussed collectively and generally, and not separately as were the first four test measures.

The six parts comprising the test of basic English skills are:

- I Sound Discrimination
- II Sound Recognition
- III Intonation -- Meaning
  - IV Vocabulary
  - V Vocabulary -- Functors
  - VI Idiomatic Usage

Generally the performance of the second generation (3) group across the various languages tended to be at or slightly above the grade averages, with only a few exceptions.

Because the test was intended to tap basic skills it was expected that those students who had recently begun learning inglish would have some difficulty, while the rest would get perfect or near perfect scores. This was confirmed.

In the language groups where B was represented as well as  $D_{\rm e}$  or  $D_{\rm l}$ , (Figures 9, 11, 12, 13) it was noted that the B groups tended to outperform slightly the other groups. However, the performance of the early arrivals ( $D_{\rm e}$ ) also tended to be close to the level of grade averages. Thus, in Figures 11, 12 and 13, the  $D_{\rm e}$  groups performed

similarly to the b groups and in some instances slightly letter. Figure 15 (Portuguese) where a B group is not represented, the correspondence to grade averages.

Not surprisingly, the students who were over six pears of:
when they arrived in Canada, D<sub>1</sub>, perform below average on this lest. Each
more important, the test suggests that the pattern of difficulties experience:
by the Chinese (Figure 9) were unique. Using prepositions and discriminate
ing sounds were very difficult, while getting meaning from intormal on was
consistently the easiest of all skills tested. For Greeks (Figure 12),
Italians (Figure 13) and Portuguese (Figure 15) the grade nine students
as well as the grade seven Italian students showed a pattern of increasing
difficulty moving from subtest I to subtest VI with the pencil and paper
portions of the test being more difficult than the oral sections.

At grade five it appeared that the test of idioms and, as with the Chinese, the intonation test were the easiest. There appeared to be somewhat less variability in averages at grade five than at grade nine.

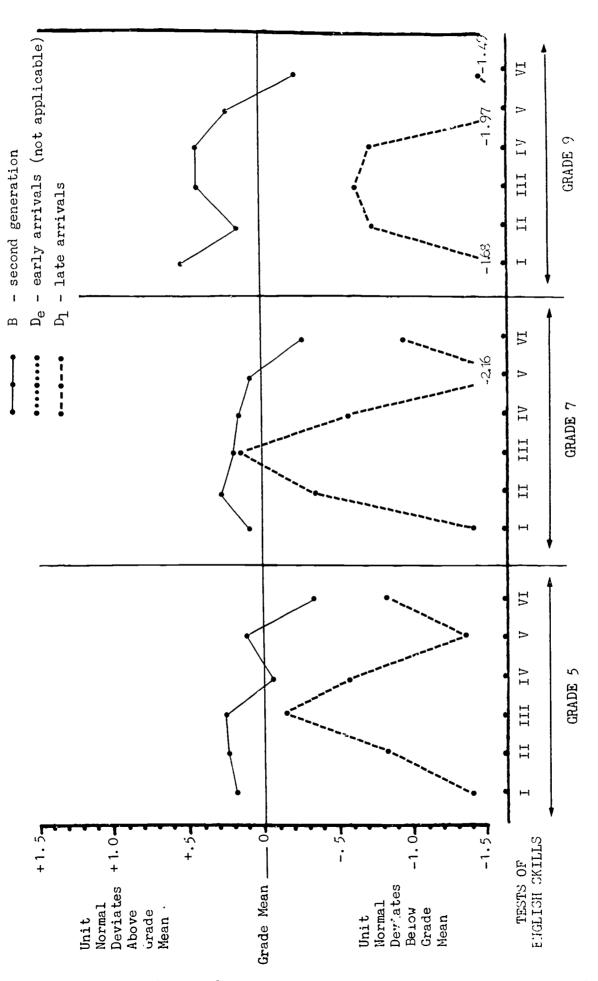


Fig. 9. Performance by students for whom <u>CHINESE</u> was their mother tongue. Ferformance to recornate for each of the separate subtests of English Language Skills. The specific subtests are identified in the text.

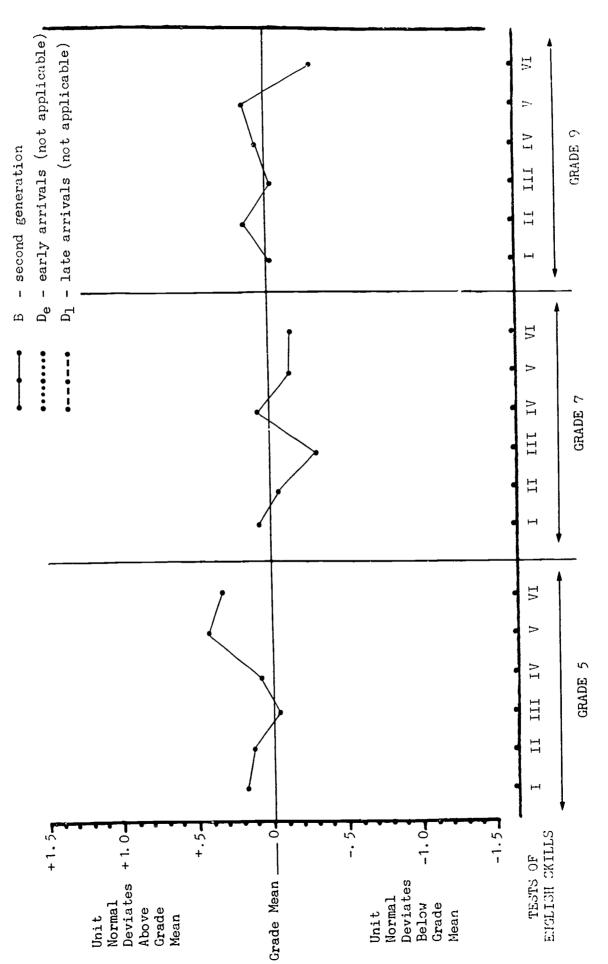


Fig. 13. Ferformance by students for whom <u>FRENCH</u> was their rother tongue. Ferformance is resorb a for each of the separate subtests of English Language Skills. The specific subtests are identified in the text.

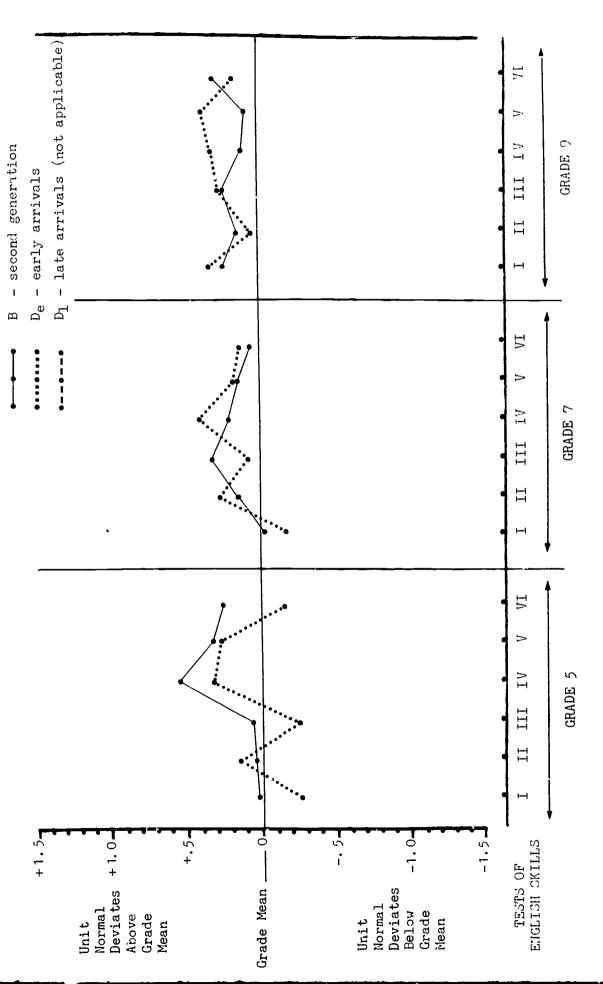
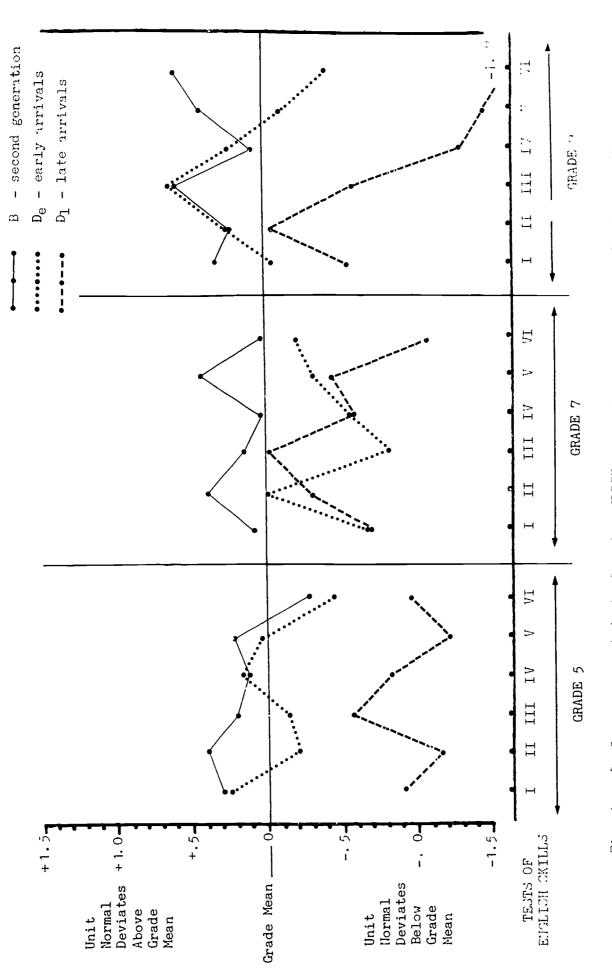


Fig. 11. Performance by students for whom <u>GERWAN</u> was their mother toligue. Performance is recent for each of the separate subtests of English Language kills. The specific subtests are identified in



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fig. 1.. Ferformance of stylents for whom <u>URIER</u> who their mother tougue. Ferformance of the separate bubtests of inglish Language Killis. The special out out in fourth .

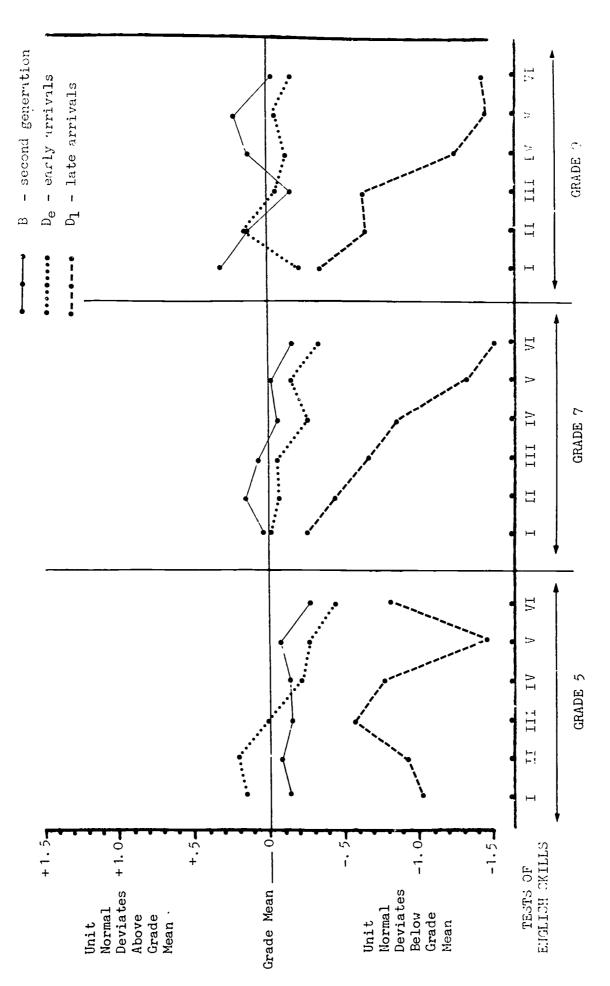
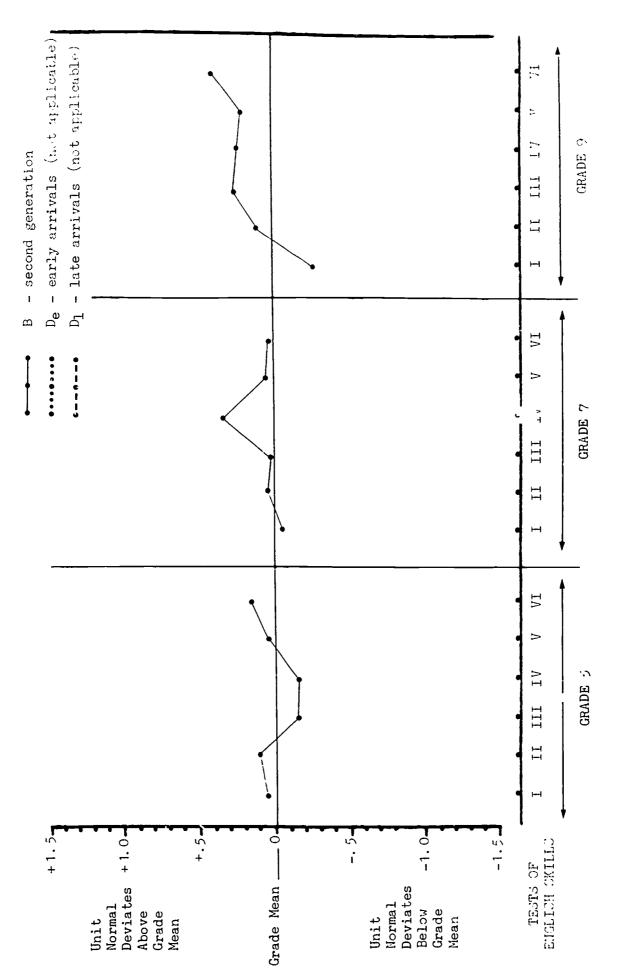


Fig. 13. Ferformance by students for whom ITMLIN was their ruther to grave. Ferformance by students for your for your for your of the separate subtests of English Language Wills, The specific oubtest and it wills. The text.



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Fig. 14. Ferformance by students for whom POLISH was their mother tongue. Ferformance is recorded for each of the separate subtests of English Language Thills. The substitution in the text.

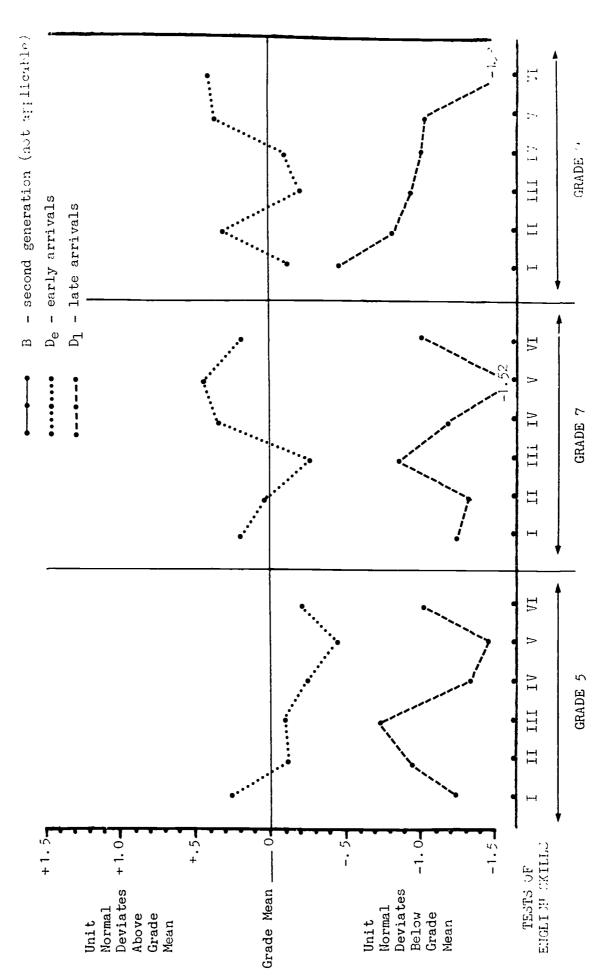
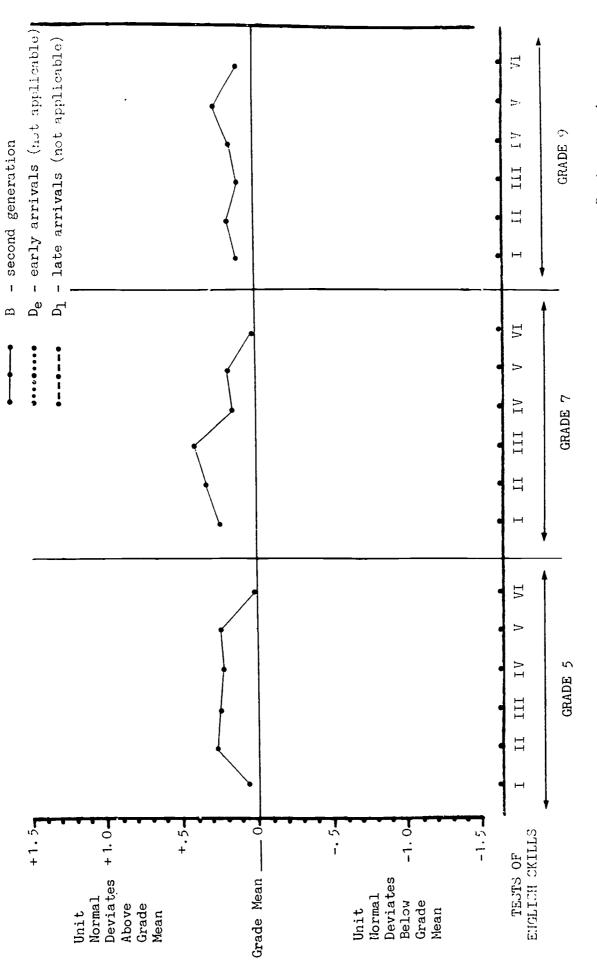


Fig. 1). Ferformance by students for whom <u>FORTUGUEUE</u> was their modier tongue. Intriner resorded for each of the separate subtests of English Language Okillo. The starified in the text.



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Fig. 10. Performance by students for whom <u>UKRALMIAN</u> was their rather trans. Furthrand is recorded for each of the separate subtests of English Language oxills. The specific suntests in identified in the text.

# Parental Education

However, because a large proportion of the students regions:
"bon't Know," to this item on the background questionnaire, there were
too few responses on which to base any estimate of the parents! we run
educational background.

A previous report describing non-Canadian born and Canadian born students has noted the great lack of students' information regarding their parents' education. In the city-wide sample of grades five, seven and nine, the proportion of Canadian born students who responded "Don't Know" for mothers' and fathers' educational attainment was 47.0 per cent and 52.4 per cent respectively. Among non-Canadian born students the proportions were slightly higher, 50.6 per cent for mothers and 54.1 per cent for fathers.

The language groups included in this report (and the student groups within each) showed a varying but high proportion of "Don't know" responses. Generally, the highest proportions of "Don't know" responses were found in grade five, with slightly lower ones in grade nine. For example, in grade five, proportions in the 70 and 80 per cent ranges were common; among students who had learned Polish (Group B) 81.5 per cent reported they did not know their mothers' education and 85.2 per 1 14 did not know their fathers' education. At the grade nine level the proportions were somewhat lower usually ranging around 30 to 40 per cent.



<sup>7</sup> Ramsey, C. A., & Wright, E. N. Students of non-Canadian origin: A descriptive report of students in Toronto schools. Toronto: The mana of Education for the City of Toronto, Research Department, 1969, (#40), p. 44.

if the not meaningful to consider or describe the small or or or responses which did report the level of education attained in the parents.



#### CONCLUSION

This report was not an attempt to "pit" any one language group against another. The difference in immigration patterns would render this a fruitless exercise. Furthermore, only eight groups were selected and described. Rather, the general aim was to see, if possible, whether cultural differences produced distinct patterns of performance on a variety of measures. Thus, in terms of language background, eight cultures are represented. If a culture showed a distinctive pattern of performance this should be observable at various grade levels and for early as well as late arrivals.

The only language group which came close to displaying a distinctive pattern was the Chinese. The results generally showed that no clear patterns were observable on the basis of language alone. However, on the basis of language and student type, some patterns were discernible.

The following tendencies can be faintly perceived; grade five patterns and grade nine patterns seem to be different and grade seven patterns are a mixture of the two. This seems most apparent among the Mediterranean groups. However, three of the other language groups were only represented by "born in Canada" students. Among the three Mediterranean groups, the Greeks seemed most distinct. The general superiority of all "born in Canada" students is most apparent in grade nine, especially on the Picture Vocabulary Test.

The number of students in any one group is small and only the greatest contrasts are significant. The few observations have, therefore, been heavily qualified. The reader should spend some time studying the



level or it one conjurison, and how this clear pattern library are more changes later. The patterns of performance normalized by a second and an access vary with transpace of the contract the cultural background. This is most important because it contract the extent and nature of the difficulties for students the two formal lengths as a second tanguage, differ greatly as one moves from a juntor school (grade five), to a secondary school (grade nine. In ge. mill superiority of "second generation" children and the success of those and arrived in Gunada at the age of six or younger is consistent with of a analyses that have been reported.

APPENDIX



TABLE 3

NUMBER OF STUDENTS, CANADIAN FORM FILLIANUM,
(i.e. GROUP P) BY GRADE AND LANKAGE OF W.

languagec	J.e.n			
	⊸ ∂ <b>r</b> ade ∫	Grade 7	) <u>;</u> ,,,,,	
Iratio	0	,		
Chinese —————	<del></del> 3.^	.> 3	. 1	
Czecho-Glovak	1	# rays		
Danish	0	1	/ \	
Dutch	4	$\hat{\mathbf{C}}$	i	
English		*** ***		
Estonian	5	10	3	
French	<del></del>	15	31	
German	<del></del> 31	32		
Greek ————	→ 31	5	ŧ	
Hungarian	11	3	3	
Italian —————	154	50	31	
Japanese	2	ક	4.	
Latvian	6	12	13	
Lithuanian	9	11	13	
Caltese	1	3		
Norwegian	0	C	1	
Polish —————	27	30	٠.٠	
Por <b>t</b> uguese	ь	1	,	
Roumanian	1	0	Ċ	
Russian	1	3	3	
Spanish	0	1	)	
Swedish	0	0		
Ukrainian ————	<del></del>	4.1	٠3	
Yiddish	4	1	,	
Yugoslavian	10	3	1.	
Total	401	263	280	

These groups (——) are selected for analyses in Figures 1 through 16.



TABLE :

UPD EF OF STUDENTS, NON-CANADILL FORM CILITY IN
EARLY ORRIVALS (i.e. GROUP De) BY GRADE AND LANGUAGE PACT

Limitarigue	Monn			
	Grale 5	Grade 7	ir. 1- 5	
Arabic	• 1	7)		
Chi w se	÷	1.7	4	
Czecno-Slovak	()	, 1	,	
Danish	O	O	7	
Dutch	1	1	,	
English				
Estonian	0	0	•	
French	3	2	,	
German	14	17	3.	
Greek	<b>2</b> 1	16	15	
Hungarian	, *	7	1."	
Italian —	<u>~~~</u> 6÷	67	20	
Japanese	2	С		
Latvian	0	0	1	
Lithuanian	1	3	÷	
Mitese	.>	1	t	
lo <b>r</b> wegian	0		<i>r</i>	
Polich	7	•	1.,	
Fortuguese	<del></del>		1.	
Roumanian	n		i	
Russian	0	1	7	
Spanish	0	2	$\cap$	
Swedish	1	0	1.1	
Ukrainian	1	5	r •	
Yiddish	0	$\epsilon_{i}$	1	
Yugoslavian	10	7	13	
Total	172	160	1. ,	

These groups (——) are selected for analyses in Figures 1 through 16.



TABLE 5

NUMBER OF STUDENTS, NON-CANADIAN FORM FILINGMAN
LITE SPRIVALS (I.e. GROUF DI) BY GRADE AND LANGUAGE AND

L agrejes		Meth			
	Grade (	krije 7	irta .		
Arabie	· · · · · · · · · · · · · · · · · · ·		ı		
Ohiauso ————	<del></del>	.3.)	• i		
Csecho-Slovak	7	,	<b>;</b>		
Danich	Э	1	÷,		
Dutch.	·~	,			
Englich					
Ectonian	0	•	V		
French	4	2	1`		
German	8	2	1:		
Greek	33	13	ي ي		
Hungarian	<b>√</b>	2	•;		
Italian	79	34	71		
Japanese	1	Ŋ	)		
Latvian	O	0	Э		
Lithuanian	9	Э	Ó		
:::ltese	1		/_		
Norwegian	Э	0	1		
Folich	7	7			
Fortuguese ————	•,,	32	4)		
Rouminian	Ĵ	•			
Russian	0	1			
Spanish	5	5	ن		
Swedish	)	$\cap$	1		
Ukrainian	2.	1	;		
Yiddish	n		1		
Dagoslavlan	12	1.	<b>i</b> :		
Total	21;	13′	,`i		

These groups (-----) are selected for analyses in Figures 1 through 1:.

